

National Transportation Safety Board Positive Train Control Forum

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appearing on behalf of the

Association of American Railroads

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Introduction

- ◆ Vice President – Mechanical for CSX Transportation
 - ◆ Leads CSX's PTC initiative
- ◆ Prior roles
 - ◆ President – CSX Technology
 - ◆ Vice President – Internal Audit
 - ◆ Assistant to the Chairman
 - ◆ Associate General Counsel
- ◆ PTC at CSX
 - ◆ 3,600 locomotives
 - ◆ 12,000 route miles
 - ◆ \$1.7 Billion investment
 - ◆ > 700 employees engaged in PTC
- ◆ PTC for the industry
 - ◆ > 18,000 locomotives
 - ◆ > 60,000 route miles
 - ◆ > \$10 Billion investment
 - ◆ > 5000 employees engaged in PTC



Regulatory Timeline

2008

- October 16, 2008 - RSIA becomes law

2009

- July 21, 2009 - FRA issues NPRM

2010

- January 15, 2010 - Final Rule issued
- July 28, 2010 - AAR appeals certain aspects of Final Rule
- September 27, 2010 - FRA amends criteria to remove a line from PTC scope

2011

- March 2, 2011 - FRA and AAR reach settlement agreement
- April 22, 2011 - AAR files Rulemaking Petition
- August 24, 2011 - FRA issues NPRM to base PTC on projected 2015 traffic

2012

- May 14, 2012 - FRA amends Rule to base PTC on projected 2015 traffic
- December 11, 2012 - FRA issues NPRM addressing de minimis exceptions, yard operations, and en route failures

2013

- January 28, 2013 - FRA clarifies the December 2012 NPRM
- March 11, 2013 – Comments due on December 2012 NPRM



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Required PTC Documents

◆ PTC Implementation Plan

- ◆ where will PTC be installed (locomotives and wayside),
- ◆ how the PTC system will be interoperable with other railroads, and
- ◆ how, to the extent practical, the system will be implemented to address areas of greater risk before areas of lesser risk

◆ PTC Development Plan

- ◆ describes the various components that make-up the PTC system and how it will function

◆ PTC Safety Plan

- ◆ describes how railroads will ensure the safety of the system, including:
 - ◆ detailed analysis of hazards, safety assurance concepts, safety assessments, and mitigations
 - ◆ detailed description of all testing of the system
 - ◆ human factors analysis



Guidelines to aid railroads in PTC filings, implementation, operation and interoperability

- ◆ Joint Railroad Safety Team – Safety Plan
- ◆ ITC Collaborative Work Activities
- ◆ Association of American Railroads
 - ◆ Publication of ITC-PTC Standards
 - ◆ Industry PTC Conference - October 2012
 - ◆ Research & Development Efforts
- ◆ Best practices for Track Database creation
- ◆ Collaborative Investments
 - ◆ PTC-220 – Spectrum & Frequency Coordination
 - ◆ MeteorComm – Radio & Communication System
- ◆ Industry Governance



Closing Thoughts

- ◆ Great progress has been made in 2012
- ◆ Will and commitment of industry is evident
- ◆ Industry collaboration is at record levels
- ◆ Supplier capabilities and performance are critical
- ◆ Regulatory support, cooperation and resources required
- ◆ Long term preparation for operational PTC is necessary

